

Dennis P Wall

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

3,019
citations

28
h-index

54
g-index

83
ext. papers

3,909
ext. citations

6.7
avg, IF

5.03
L-index

#	Paper	IF	Citations
77	A framework for the interpretation of de novo mutation in human disease. <i>Nature Genetics</i> , 2014 , 46, 944-50	36.3	656
76	Functional genomic analysis of the rates of protein evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5483-8	11.5	226
75	Refining the role of de novo protein-truncating variants in neurodevelopmental disorders by using population reference samples. <i>Nature Genetics</i> , 2017 , 49, 504-510	36.3	203
74	Coevolution of gene expression among interacting proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 9033-8	11.5	171
73	Inherited and De Novo Genetic Risk for Autism Impacts Shared Networks. <i>Cell</i> , 2019 , 178, 850-866.e26	56.2	142
72	A simple dependence between protein evolution rate and the number of protein-protein interactions. <i>BMC Evolutionary Biology</i> , 2003 , 3, 11	3	123
71	Use of artificial intelligence to shorten the behavioral diagnosis of autism. <i>PLoS ONE</i> , 2012 , 7, e43855	3.7	99
70	Biomedical cloud computing with Amazon Web Services. <i>PLoS Computational Biology</i> , 2011 , 7, e10021475		95
69	Roundup: a multi-genome repository of orthologs and evolutionary distances. <i>Bioinformatics</i> , 2006 , 22, 2044-6	7.2	89
68	Cloud computing for comparative genomics. <i>BMC Bioinformatics</i> , 2010 , 11, 259	3.6	85
67	Effect of Wearable Digital Intervention for Improving Socialization in Children With Autism Spectrum Disorder: A Randomized Clinical Trial. <i>JAMA Pediatrics</i> , 2019 , 173, 446-454	8.3	56
66	Machine learning approach for early detection of autism by combining questionnaire and home video screening. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018 , 25, 1000-1007	8.6	55
65	Adjusting for selection on synonymous sites in estimates of evolutionary distance. <i>Molecular Biology and Evolution</i> , 2005 , 22, 174-7	8.3	55
64	Phylogenetic Relationships Within the Haplolepidous Mosses. <i>Bryologist</i> , 2000 , 103, 257-276	0.7	48
63	The potential of accelerating early detection of autism through content analysis of YouTube videos. <i>PLoS ONE</i> , 2014 , 9, e93533	3.7	41
62	Sparsifying machine learning models identify stable subsets of predictive features for behavioral detection of autism. <i>Molecular Autism</i> , 2017 , 8, 65	6.5	40
61	Genotator: a disease-agnostic tool for genetic annotation of disease. <i>BMC Medical Genomics</i> , 2010 , 3, 50	3.7	40

60	Human Genome Sequencing at the Population Scale: A Primer on High-Throughput DNA Sequencing and Analysis. <i>American Journal of Epidemiology</i> , 2017 , 186, 1000-1009	3.8	39
59	Clinical Evaluation of a Novel and Mobile Autism Risk Assessment. <i>Journal of Autism and Developmental Disorders</i> , 2016 , 46, 1953-1961	4.6	35
58	Ortholog detection using the reciprocal smallest distance algorithm. <i>Methods in Molecular Biology</i> , 2007 , 396, 95-110	1.4	35
57	Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism. <i>Npj Digital Medicine</i> , 2018 , 1, 32	15.7	33
56	Labeling images with facial emotion and the potential for pediatric healthcare. <i>Artificial Intelligence in Medicine</i> , 2019 , 98, 77-86	7.4	33
55	ORIGIN AND RAPID DIVERSIFICATION OF A TROPICAL MOSS. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 1413-1424	3.8	33
54	Feasibility Testing of a Wearable Behavioral Aid for Social Learning in Children with Autism. <i>Applied Clinical Informatics</i> , 2018 , 9, 129-140	3.1	32
53	Cost-effective cloud computing: a case study using the comparative genomics tool, roundup. <i>Evolutionary Bioinformatics</i> , 2010 , 6, 197-203	1.9	31
52	A research roadmap for next-generation sequencing informatics. <i>Science Translational Medicine</i> , 2016 , 8, 335ps10	17.5	29
51	Identification of Human Neuronal Protein Complexes Reveals Biochemical Activities and Convergent Mechanisms of Action in Autism Spectrum Disorders. <i>Cell Systems</i> , 2015 , 1, 361-374	10.6	29
50	Identification and Quantification of Gaps in Access to Autism Resources in the United States: An Infodemiological Study. <i>Journal of Medical Internet Research</i> , 2019 , 21, e13094	7.6	29
49	Data-Driven Diagnostics and the Potential of Mobile Artificial Intelligence for Digital Therapeutic Phenotyping in Computational Psychiatry. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020 , 5, 759-769	3.4	27
48	Use of the nuclear gene glyceraldehyde 3-phosphate dehydrogenase for phylogeny reconstruction of recently diverged lineages in Mitthyridium (Musci: Calymperaceae). <i>Molecular Phylogenetics and Evolution</i> , 2002 , 25, 10-26	4.1	23
47	Converging on a general model of protein evolution. <i>Trends in Biotechnology</i> , 2005 , 23, 485-7	15.1	23
46	COSMOS: Python library for massively parallel workflows. <i>Bioinformatics</i> , 2014 , 30, 2956-8	7.2	20
45	Guess What?: Towards Understanding Autism from Structured Video Using Facial Affect. <i>Journal of Healthcare Informatics Research</i> , 2019 , 3, 43-66	4	20
44	A Mobile Game for Automatic Emotion-Labeling of Images. <i>IEEE Transactions on Games</i> , 2020 , 12, 213-218	2	19
43	Scalable and cost-effective NGS genotyping in the cloud. <i>BMC Medical Genomics</i> , 2015 , 8, 64	3.7	16

42	Autworks: a cross-disease network biology application for Autism and related disorders. <i>BMC Medical Genomics</i> , 2012 , 5, 56	3.7	16
41	Systems biology as a comparative approach to understand complex gene expression in neurological diseases. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2013 , 3, 253-72	2.3	16
40	Precision Telemedicine through Crowdsourced Machine Learning: Testing Variability of Crowd Workers for Video-Based Autism Feature Recognition. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	16
39	Cross-disorder comparative analysis of comorbid conditions reveals novel autism candidate genes. <i>BMC Genomics</i> , 2017 , 18, 315	4.5	15
38	Personalized cloud-based bioinformatics services for research and education: use cases and the elasticHPC package. <i>BMC Bioinformatics</i> , 2012 , 13 Suppl 17, S22	3.6	15
37	Toward Continuous Social Phenotyping: Analyzing Gaze Patterns in an Emotion Recognition Task for Children With Autism Through Wearable Smart Glasses. <i>Journal of Medical Internet Research</i> , 2020 , 22, e13810	7.6	15
36	The Quantified Brain: A Framework for Mobile Device-Based Assessment of Behavior and Neurological Function. <i>Applied Clinical Informatics</i> , 2016 , 7, 290-8	3.1	15
35	A practical approach to real-time neutral feature subtraction for facial expression recognition 2016 ,		14
34	Evolutionary patterns of codon usage in the chloroplast gene rbcL. <i>Journal of Molecular Evolution</i> , 2003 , 56, 673-88; discussion 689-90	3.1	14
33	Comorbid Analysis of Genes Associated with Autism Spectrum Disorders Reveals Differential Evolutionary Constraints. <i>PLoS ONE</i> , 2016 , 11, e0157937	3.7	14
32	Conservation of the RB1 gene in human and primates. <i>Human Mutation</i> , 2005 , 25, 396-409	4.7	13
31	Feature replacement methods enable reliable home video analysis for machine learning detection of autism. <i>Scientific Reports</i> , 2020 , 10, 21245	4.9	11
30	Superpower Glass. <i>GetMobile (New York, N Y)</i> , 2019 , 23, 35-38	0.8	11
29	Using game theory to detect genes involved in Autism Spectrum Disorder. <i>Top</i> , 2011 , 19, 121-129	1.3	10
28	Phylogeny of the Calymperaceae with a rank-free systematic treatment. <i>Bryologist</i> , 2007 , 110, 46-73	0.7	10
27	Feature Selection and Dimension Reduction of Social Autism Data. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2020 , 25, 707-718	1.3	9
26	Can we accelerate autism discoveries through crowdsourcing?. <i>Research in Autism Spectrum Disorders</i> , 2016 , 32, 80-83	3	8
25	A literature search tool for intelligent extraction of disease-associated genes. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014 , 21, 399-405	8.6	7

24	MC-GenomeKey: a multicloud system for the detection and annotation of genomic variants. <i>BMC Bioinformatics</i> , 2017 , 18, 49	3.6	6
23	The GapMap project: a mobile surveillance system to map diagnosed autism cases and gaps in autism services globally. <i>Molecular Autism</i> , 2017 , 8, 55	6.5	5
22	Cloud computing for comparative genomics with windows azure platform. <i>Evolutionary Bioinformatics</i> , 2012 , 8, 527-34	1.9	5
21	Refining the role of de novo protein truncating variants in neurodevelopmental disorders using population reference samples		5
20	Whole genome sequencing in multiplex families reveals novel inherited and de novo genetic risk in autism		5
19	Crowdsourced privacy-preserved feature tagging of short home videos for machine learning ASD detection. <i>Scientific Reports</i> , 2021 , 11, 7620	4.9	5
18	Coalitional Game Theory Facilitates Identification of Non-Coding Variants Associated With Autism. <i>Biomedical Informatics Insights</i> , 2019 , 11, 1178222619832859	4.9	3
17	A Mobile Game Platform for Improving Social Communication in Children with Autism: A Feasibility Study. <i>Applied Clinical Informatics</i> , 2021 , 12, 1030-1040	3.1	3
16	Evaluation of an artificial intelligence-based medical device for diagnosis of autism spectrum disorder.. <i>Npj Digital Medicine</i> , 2022 , 5, 57	15.7	3
15	Selection of trustworthy crowd workers for telemedical diagnosis of pediatric autism spectrum disorder. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2021 , 26, 14-25	1.3	2
14	Crowdsourced feature tagging for scalable and privacy-preserved autism diagnosis		2
13	Game theoretic centrality: a novel approach to prioritize disease candidate genes by combining biological networks with the Shapley value. <i>BMC Bioinformatics</i> , 2020 , 21, 356	3.6	2
12	Children with Autism and Their Typically Developing Siblings Differ in Amplicon Sequence Variants and Predicted Functions of Stool-Associated Microbes. <i>MSystems</i> , 2021 , 6,	7.6	2
11	Leveraging video data from a digital smartphone autism therapy to train an emotion detection classifier		2
10	Training Affective Computer Vision Models by Crowdsourcing Soft-Target Labels. <i>Cognitive Computation</i> , 2021 , 13, 1363	4.4	2
9	Identification of Social Engagement Indicators Associated With Autism Spectrum Disorder Using a Game-Based Mobile App: Comparative Study of Gaze Fixation and Visual Scanning Methods.. <i>Journal of Medical Internet Research</i> , 2022 , 24, e31830	7.6	2
8	Rising interdisciplinary collaborations refine our understanding of autisms and give hope to more personalized solutions. <i>Personalized Medicine</i> , 2015 , 12, 359-369	2.2	1
7	Crowdsourced study of children with autism and their typically developing siblings identifies differences in taxonomic and predicted function for stool-associated microbes using exact sequence variant analysis		1

6	GapMap: Enabling Comprehensive Autism Resource Epidemiology. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e27	11.4	1
5	Estimating sequencing error rates using families. <i>BioData Mining</i> , 2021 , 14, 27	4.3	1
4	Crowd Annotations Can Approximate Clinical Autism Impressions from Short Home Videos with Privacy Protections		1
3	Classifying Autism From Crowdsourced Semistructured Speech Recordings: Machine Learning Model Comparison Study.. <i>JMIR Pediatrics and Parenting</i> , 2022 , 5, e35406	4.2	0
2	ORIGIN AND RAPID DIVERSIFICATION OF A TROPICAL MOSS. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 1413	3.8	
1	Translational Meta-analytical Methods to Localize the Regulatory Patterns of Neurological Disorders in the Human Brain 2015 , 2015, 2073-82	0.7	